

EXHIBIT 4

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Claims

- 1 1. A method of controlling and delivering media content from a media server (MS) to a media renderer (MR) utilizing a wide area IMS network for control, comprising the acts of:
 - 3 provisioning a serving node in the IMS network with control point (CP) logic that
 - 4 includes logic to negotiate media content delivery with at least one of an MS and an
 - 5 MR;
 - 6 provisioning a user endpoint (UE) device of the IMS network with control point proxy
 - 7 (CPP) logic that includes (i) logic to negotiate media content delivery with at least
 - 8 one of an MS and an MR, (ii) logic to cooperate with CP logic to negotiate media
 - 9 content delivery between an MS and an MR, and (iii) VCR controls to control a
 - 10 presentation of content provided by the MS and rendered by the MR;
 - 11 in response to a media content delivery request, determining a network context of the UE
 - 12 and a network connectivity of the MS and MR;
 - 13 invoking the CPP logic and the CP logic to cooperatively negotiate media content
 - 14 delivery between an MS and an MR if one of the MS and MR are not in
 - 15 communication with the UE via a local wireless network; and
 - 16 once media content delivery is negotiated, controlling a presentation of delivery via the
 - 17 VCR controls on the UE.
- 1 2. The method of claim 1, wherein the CPP logic is invoked to negotiate media content delivery
 - 2 between an MS and an MR if the MS and MR are both in communication with the UE via a local
 - 3 wireless network.
- 1 3. The method of claim 2, wherein the local wireless network includes at least one a Wi-Fi
 - 2 network, a WiMax network, and a Bluetooth network.
- 1 4. The method of claim 1, wherein the CP logic is invoked to negotiate media content delivery
 - 2 between an MS and an MR if neither the MS nor the MR are in communication the UE via the
 - 3 local wireless network.
- 1 5. The method of claim 1, wherein the UE is implemented on a handset.

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1 6. The method of claim 5, wherein the handset comprises a display, and the MR uses the
2 display.

1 7. The method of claim 1, wherein at least one of the MS and the MR is on a 3G network and in
2 communication with the serving node.

1 8. The method of claim 1, wherein the UE is in communication with the MR via a local wireless
2 network.

1 9. The method of claim 1, wherein the UE is in communication with both the MS and the MR
2 via a local wireless network.

1 10. The method of claim 1, wherein the CP logic negotiates service delivery from the MS, the
2 MS being on a 3G network, the CPP logic in the UE negotiates delivery on the MR, and the CP
3 logic and CPP logic execute synchronization logic to complete the negotiation of delivery from
4 the MS to the MR.

1 11. The method of claim 1, wherein the UE communicates its network context to the serving
2 node and the serving node informs the UE of the serving node's capabilities for negotiation with
3 devices local to the UE.

1 12. The method of claim 1, wherein the CP logic is configured to serve multiple unrelated
2 devices running CPP logic.

1 13. The method of claim 12, wherein CPP logic is implemented in a UE resident in a handset
2 and in a remote control device.

1 14. The method of claim 13, wherein a user uses the CPP logic in the handset when the user is
2 remote from the MR and uses the CPP logic in the remote control device when the user is local
3 to the MR.

1 15. The method of claim 1, wherein, if one of the MS and MR are remote from the UE, the CPP
2 logic provides information about invoked VCR controls to the CP logic on the serving node to
3 allow the CP logic to control the remote MS or MR.

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- 1 16. The method of claim 1, wherein the MS and the MR are in a digital home network.
- 1 17. The method of claim 1, wherein the UE determines that it is local to at least one of an MS
2 and an MR by using Universal Plug and Play (UPnP) protocols.
- 1 18. The method of claim 1, wherein at least one of the MS and MR announce their presence to
2 the UE using at least one of UPnP protocols, Jini technology, RFID, and Bluetooth.
- 1 19. The method of claim 1, wherein the negotiation of media content delivery includes the
2 negotiation of out-of-band media transfer between the MS and the MR.